

CLAIMS

WE CLAIM:

1. A multi-phase motor comprising a rotor and stator parts arranged concentrically to the rotor, and a core and a coil, consisting of a winding wire, wound up upon said core, and a plug part with plug pins with strip conductors for electrical connection to a power supply source,

the winding wires being connected directly to one of the plug pins and the strip conductors and there is provided, between each coil and the plug part an electrically insulating connecting piece for receiving a section of the winding wire.

2. The multi-phase motor according to claim 1, wherein the coils, in each case, are received in a coil carrier that is made integrally with the connecting piece.

3. The multi-phase Motor according to claim 2, wherein each connecting piece is made integrally with a pin strip that holds the plug pins.

4. The multi-phase motor according to claim 3, wherein the coil carriers are made integrally with the connecting element and the pin strip.

5. The multi-phase motor according to claim 2, wherein the coil carrier of one of the coils is made integrally with the connecting piece and a plug housing.

Sub B1
6. The multi-phase motor according to claim 3, wherein one of the pin strips holds a plug housing by a catch connection.

Sub B2
7. The multi-phase motor according to claim 1, wherein in the plug part, there is firmly attached a first plurality of plug pins and a second plurality of plug pins firmly attached in a separate removably retained pin strip.

Sub B1
8. The multi-phase motor according to claim 7, wherein the first and second plurality of plug pins is arranged in one row.

Sub B3
9. The multi-phase motor according to claim 1, wherein at least one part of the winding wires is connected, via an active or passive electrical structural member with the one of the plug pins and the strip conductors.

Sub C1
10. The multi-phase motor according to claim 1, wherein the winding wires are connected with the one of the plug pins and the strip conductors in a locking manner.

*Sub
A3
Claim 11*

11. The multi-phase motor according to claim 1, wherein the winding wires are connected, in an electrically conducting manner, with the one of the plug pins and strip conductors in locking manner.

*Sub
B1*

12. The multi-phase motor according to claim 2, wherein the coil carriers are made in one part and have an opening in which is received the coil body.

*Sub
B2*

13. The multi-phase motor according to claim 1, wherein there are two coils with corresponding connecting pieces.

*Sub
B3*

14. The multi-phase motor according to claim 13, wherein at least a part of the connecting pieces has a wire duct in which the winding wire section is guided.

*Sub
B4*

15. The multi-phase motor according to claim 14, wherein in at least one part of the connecting pieces, the winding wire section lies exposed on an outside surface.

*Sub
A5*

16. The multi-phase motor according to claim 1, wherein a motor housing is made integrally with a plug housing.